MCO Home WT15

MCO Home External Temperature Sensor WT15 User Manual

Model: WT15

1. INTRODUCTION

The MCO Home External Temperature Sensor WT15 is designed to provide accurate temperature readings for underfloor heating systems. It is specifically compatible with MCO Home MH7 Thermostats, offering an essential component for effective underfloor overheating protection. This sensor ensures precise temperature monitoring, contributing to the efficient and safe operation of your heating system.

2. PRODUCT OVERVIEW

The WT15 sensor is a black, wired component with a length of 3 meters, allowing for flexible placement. It is designed for direct integration into underfloor heating control systems.

Figure 1: MCO Home WT15 External Temperature Sensor. This image shows the sensor as a coiled black cable, approximately 3 meters in length, with the ends of the wires (red and blue) exposed for connection.

3. SETUP AND INSTALLATION

Installation of the WT15 sensor should be performed by a qualified professional to ensure proper functionality and safety. The sensor is intended for connection to compatible MCO Home MH7 Thermostats.

3.1 Connection to Thermostat

1. Ensure the power supply to the thermostat and heating system is completely disconnected before beginning installation.

2. Identify the sensor input terminals on your MCO Home MH7 Thermostat. Refer to the MH7 Thermostat's user manual for specific wiring diagrams.

3. Connect the two wires of the WT15 sensor to the designated sensor input terminals on the thermostat. Polarity typically does not matter for this type of temperature sensor, but always verify with the thermostat's manual.

4. Secure the connections firmly to prevent loose wiring.

3.2 Sensor Placement

The 3-meter length of the sensor cable allows for flexible placement. For underfloor heating applications, the sensor should be placed within the floor structure, typically in a conduit, to accurately measure the floor temperature and

prevent overheating. Consult your underfloor heating system's installation guidelines for optimal sensor positioning.

4. OPERATION

Once correctly installed and connected to a compatible MCO Home MH7 Thermostat, the WT15 sensor will continuously measure the external temperature (e.g., floor temperature) and transmit this data to the thermostat. The thermostat then uses this information to regulate the heating system, ensuring the floor temperature remains within safe and desired limits, thereby preventing overheating.
The thermostat's display will typically show the temperature reading from the sensor, and its settings will allow you to configure temperature limits and control logic based on this input.

5. MAINTENANCE

The MCO Home WT15 External Temperature Sensor is designed for long-term, maintenance-free operation once installed. No routine maintenance is required for the sensor itself.

- **Cleaning:** If the exposed part of the cable or sensor tip becomes dirty, gently wipe it with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- **Inspection:** Periodically inspect the visible parts of the cable for any signs of damage, such as cuts or abrasions. If damage is found, consult a qualified technician for assessment and potential replacement.

6. TROUBLESHOOTING

If you experience issues with temperature readings or the heating system's response, consider the following:

- **No Temperature Reading / Incorrect Reading:**

  - Verify that the sensor is correctly wired to the thermostat terminals. Ensure connections are secure.
  - Check the thermostat's settings to confirm it is configured to use the external sensor input.
  - Inspect the sensor cable for any visible damage. A damaged cable can lead to inaccurate readings or no reading at all.
  - Ensure the sensor is not exposed to direct heat sources or drafts that could skew readings.

- **Overheating / Underheating:**

  - While the sensor provides data, the thermostat controls the heating. Check the thermostat's programming and setpoints.
  - Confirm the sensor is placed in an optimal location to accurately represent the temperature of the area it is monitoring (e.g., the floor).

If troubleshooting steps do not resolve the issue, contact a qualified electrician or the product manufacturer for further assistance.

7. SPECIFICATIONS

Attribute	Value
Manufacturer	MCO Home
Part Number	WT15

Product Dimensions	30 x 0.5 x 0.5 cm (cable coiled)
Item Model Number	WT15
Colour	Black
Item Package Quantity	1
Usage	Underfloor heating
Included Components	WT15 Temperature Sensor
Batteries Required?	No
Item Weight	230 g
Cable Length	3 m

8. WARRANTY AND SUPPORT

Information regarding product warranty and customer support is typically provided with the product packaging or can be found on the MCO Home official website. Please retain your proof of purchase for warranty claims.
For technical support or inquiries, please refer to the contact information provided by MCO Home or your product retailer.